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(54) Title: GAS-SOLID SEPARATION PROCESS

(57) Abstract

Apparatus for separating solid particles from a suspension of solid particles and gas, wherein the apparatus comprises: (i) a vertical primary cyclone vessel having a tubular housing comprising of a tubular wall section provided with a tangentially arranged inlet for receiving the suspension, and a cover which closes the upper end of the tubular wall section; wherein the cover is provided with an axial circular opening which opening serves as a gas inlet opening of a gas outlet conduit; (ii) one or more secondary gas-solids cyclone separators which are fluidly connected with the gas outlet conduit of the primary cyclone.

